

- 1 -

piece 1, NC_000913, kduI_yqeF+, config: linear, direction: +, begin: 2982117, end: 2982452



புதிதாசலம் p10 4.3 bits

p35 2.4 bits

b)

Udoo p10 4.3 bits

5' *2982200 * *2982210 * *2982220 * *2982230 * *2982240 * *2982250 * *2982260 * *2982270 * 3'

- leu - phe - arg - phe - leu - tyr - lys - gly - met - ile - cys - pro - trp - ala - arg - val - phe - asn -

- cys - phe - val - phe - ser - ile - lys - gly -

fMet - pro - met - gly -

ir kdUI_yqeF+

p35-(24)-p10 2982158 Gap 2.4 bits
p35-p10 2982158 total 4.3 bits

ir kduI yqeF+

A screenshot from the game 'The Witness'. The scene shows a green path with several red and blue markers. A red checkmark is visible in the top right corner, indicating a completed task or level.

[##> orf 5 codons

p10 2.4 bits

{-----} sd-(6)-ir 2982228 Gap 4.3 bits

|-----| sd-ir 2982228 kduI_vaeF+ total 6.9 bits

```
{-----} sd-(12)-ir 2982234 Gap 4.0 bits  
{-----} sd-ir 2982234 kduT vgeFt total 6 9 bits
```

```
{-----} sd-(12)-ir 2982234 Gap 4.0 bits  
----- sd-ir 2982234 kdUI vgeE+ total 6 9 bits
```

1.4 bits
bits

Genomic map of the *kduI-qyeF+* operon. The top part shows the DNA sequence with transcription start sites marked by asterisks (*). The bottom part shows the corresponding amino acid sequence with reading frames indicated by colored arrows (green for *kduI*, red for *qyeF*). Promoters are shown as dashed boxes above the DNA, and sigma factors are indicated by red dots. The *sd* promoter is located between the *kduI* and *qyeF* genes. The *qyeF* gene contains a stop codon (red arrow) and a downstream start site (green arrow) for a shorter protein. A red box highlights the first 6 codons of the *qyeF* gene.

r kduI yqeF+

{-----} sd-(16)-ir 2982303 Gap 6.4 bits

[###> orf 8 codons ⑤

p35 2.6 bits

{-----} sd-(5)-ir 298

|-----| admin 2882303 hdut user total 5 5 bits

{-----} sd-(5)-ir 298

The diagram shows two horizontal layers representing different states of a system. The bottom layer is green and labeled 'sd'. The top layer is red and labeled 'sd' and 'i'. A dashed line separates the two layers. On the left side, there is a vertical column of colored squares (green, blue, orange, yellow) representing spins. On the right side, there is another vertical column of colored squares. The labels 'sd' and 'i' are placed near the rightmost squares.

```
yqeF+ {-----} ... p35-(23)-p10 298  
  
{-----} sd-(11)-ir 2982354 Gap 3.0 bits  
  
|-----| sd-ir 2982354 kduI_yqeF+ total
```

- 2

|-----| sd-ir 2982323 kduI_yqeF+ total 7.9 bits

18214

----- ... p35-p10 2982378 total 5.3

Genomic map showing the location of the *yqeF* gene on the *NC_000913* genome. The map includes arrows indicating transcription direction, color-coded regions, and a scale bar.

 p35 6.1 bits

{-----} sd-(5)-ir 2982394 Gap 5.4 bits

[###> orf 27 codons

<----- ... NC_000913.yq

{-----} sd-(6)-ir 2982425 Gap 4.3 bit

... } p35-(23)-p10 2982378 Gap 1.4 bits

|-----| sd-ir 2982394 kduI_yqeF+ total 5.2 bits
p10 1.8 bits

|-----| sd-ir 2982425 kduI_y

ts

```
--| p35-p10 2982378 total 5.3 bits
{| { } p35-(21)-p10 2982388 Gap 3.3 bits
| p35-p10 2982388 total 4.6 bits
| { } p10 0.7 bits
{| { } p35-(24)-p10 2982391 Gap 2.1 bits
| p35-p10 2982391 total 4.3 bits
```

* *2982450
 5' c a c g t t c a a t g g 3'
 - his - val - gln - trp -
 - - - -
 - arg - ser - met -
 ... ----- ... NC_000913.yqeR